

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ADDENDUM NO. 1 TO ORDER NO. 92-25
MODIFICATION TO
WASTE DISCHARGE REQUIREMENTS
FOR
OTAY WATER DISTRICT
RALPH W. CHAPMAN WATER RECYCLING FACILITY
SAN DIEGO COUNTY

The California Regional Water Quality Control Board, San Diego Region (hereinafter Regional Board) finds that:

1. On Jun 29, 1992, this Regional Board adopted Order No. 92-25, *Waste Discharge Requirements for Otay Water District Jamacha Basin Facility, San Diego Region* establishing requirements for reuse of up to 1.3 million gallons per day (mgd) of tertiary treated wastewater.
2. Discharge Specification B.1 of Order No. 92-25, as amended, establishes a 30-day average effluent limitation for sulfate of 60 milligrams per liter (mg/l) over the sulfate concentration found in the supply water and a daily maximum effluent limitation of 100 mg/l over the sulfate concentration found in the supply water. Additionally, the daily maximum effluent sulfate concentration shall not exceed 500 mg/l under any circumstances.
3. By letter dated February 11, 1997, the Otay Water District requested a relaxation of the sulfate limit specified by Discharge Specification B.1 of Order No. 92-25.
4. The change to the sulfate effluent limit provided by the Addendum will not impact groundwater quality and is thereby consistent with the Water Quality Control Plan, San Diego Region (9).
5. On September 20, 1989, Otay Water District adopted Resolution No. 2808, which certified that the City of Chula Vista EIR 86-4 "Final Supplemental EIR - East Lake Greens and East Lake Trails (June 1989) (Case No. EIR-86-04 SCH 86052803)" was prepared and completed in accordance with the California Environmental Quality Act (Public Resources Code Section 21000 et seq.).
6. The Regional Board has notified all known interested parties of its intent to modify Order No. 92-25 to reflect a relaxation of the sulfate effluent limit.
7. The Regional Board in a public hearing heard and considered all comments pertaining to the modifications of Order No. 92-25.


IT IS HEREBY ORDERED THAT ORDER NO. 92-25 BE AMENDED AS FOLLOWS:

1. The sulfate effluent limit required under Discharge Specification B.1 is superseded by the following:

CONSTITUENT	UNIT	30-DAY AVG.	DAILY MAXIMUM
SULFATE	mg/l	100 ⁵	150 ⁵

⁵ These are the increments of sulfate in effluent over supply water. However, the daily maximum concentration of sulfate in effluent shall not exceed 500 mg/l under any circumstance.

I, John H. Robertus, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of Addendum No. 1 to Order No. 92-25 adopted by the California Regional Water Quality Control Board, San Diego Region, on May 21st, 1997.



JOHN H. ROBERTUS
Executive Officer

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ORDER NO. 92-25

WASTE DISCHARGE REQUIREMENTS
FOR
OTAY WATER DISTRICT
JAMACHA BASIN FACILITY
SAN DIEGO COUNTY

The California Regional Water Quality Control Board, San Diego Region, (hereinafter Regional Board) finds that:

1. On September 25, 1978, the Regional Board adopted Order No. 78-55, **Waste Discharge Requirements for the Otay Municipal Water District - Jamacha Basin Facility**. Order No. 78-55 and subsequent addenda established requirements for the discharge by irrigation of up to 1.3 million gallons per day (MGD) of secondarily treated domestic wastewater at the San Diego Gas and Electric Company Miguel Substation site, and a "storage pond area" located in a portion of Section 23 and a portion of Section 26, T17S, R1W, SBB&M, in the Lower Sweetwater Hydrologic Area of the Sweetwater Hydrologic Unit and the Otay Valley Hydrologic Area of the Otay Hydrologic Unit.
2. Addendum No. 1 to Order No. 78-55, adopted by the Regional Board on September 24, 1979, made the requirements of Order No. 78-55 applicable to a discharge of up to 0.9 MGD. Addendum No. 1 was adopted at the request of the Otay Water District (OWD) to account for a planned phasing in construction of wet weather effluent storage pond capacity. OWD proposed to initially construct, within the storage pond area, effluent storage ponds with a total capacity adequate for a discharge of 0.9 MGD. The storage ponds were to be expanded in phases to ultimately reach a total capacity adequate for a discharge of 1.3 MGD. After OWD completed facilities adequate for a discharge of 1.3 MGD, the Regional Board adopted Addendum No. 2 to Order No. 78-55. Addendum No. 2, which authorized the discharge of up to 1.3 MGD of treated wastewater and which rescinded Addendum No. 1, was adopted on June 1, 1981.
3. On July 27, 1981, the Regional Board adopted Addendum No. 3 to Order No. 78-55, which provided additional requirements for a new wastewater disposal plan. Addendum No. 3 established effluent limitations for mineral constituents no higher than the concentrations found in the potable water supplies distributed by the District. Addendum No. 3 required OWD to achieve compliance with the new effluent limitations by January 1, 1982. To achieve compliance with the mineral limitations, OWD was required to provide

effluent desalting facilities by January 1, 1982. Addendum No. 3 also reduced the maximum authorized flowrate to 1.0 MGD.

4. On November 23, 1981, the Regional Board adopted Addendum No. 4 to Order No. 78-55, which extended the completion date for the desalting facilities to March 31, 1982.
5. On November 24, 1981, the Executive Officer issued Technical Change Order No. T-1 to Monitoring and Reporting Program No. 78-55. The Technical Change Order included a revised reclamation site monitoring program to complement Monitoring and Reporting Program No. 78-55.
6. On April 19, 1982, the Regional Board adopted Addendum No. 5 to Order No. 78-55, which extended the completion date for the desalting facilities to May 15, 1982.
7. On July 18, 1983, the Regional Board adopted Addendum No. 6 to Order No. 78-55, which authorized the use of treated effluent for landscape irrigation and fire protection at the San Diego Gas and Electric Company (SDG&E) Miguel Substation site, a 248-acre parcel located on the southwest slope of Mother Miguel Mountain approximately four miles due south of the unincorporated community of Spring Valley.
8. On January 28, 1985, the Regional Board adopted Addendum No. 7 to Order No. 78-55 which authorized the use of reclaimed wastewater for soil compaction at the Eastlake I development, located between Proctor Valley and Telegraph Canyon, east of the City of Chula Vista.
9. On September 16, 1985, the Regional Board adopted Addendum No. 8 to Order No. 78-55 which amended the waste discharge requirements to permit the one-time use of reclaimed wastewater to fill a recreational lake within the Eastlake development. Since being filled, the lake level has been maintained with potable water obtained from OWD.
10. As a part of the FY 1986/87 waste discharge order update program and in accordance with former Section 2232.2 of the California Administrative Code, Order No. 78-55 was reviewed by Regional Board staff. It was determined that modification of the waste discharge requirements was necessary to revise standard provisions and reporting requirements specified in Order No. 78-55. On June 15, 1987, the Regional Board adopted Order No. 87-99, **Waste Discharge Requirements for Otay Municipal Water District - Jamacha Basin Facility, San Diego County**. Order No. 87-99 established requirements for the discharge by irrigation of up to 1.3 million gallons per day (MGD) of tertiary treated domestic wastewater at the San Diego Gas and Electric

Company Miguel Substation site, and the storage pond area.

11. OWD submitted a complete report of waste discharge, dated February 27, 1989, to request the authorization from Regional Board to temporarily use ponds Nos. 2 and 3, in addition to pond No. 1, to store treated wastewater. By letter dated February 26, 1990, the Executive Officer of this Regional Board authorized OWD to begin use of ponds to store treated wastewater, provided that OWD take whatever steps necessary to capture and prevent seepage from leaving OWD's property as surface flow.
12. OWD submitted a complete report of waste discharge, dated April 1990, for the modification of Order No. 87-99. The report of waste discharge indicates that the Jamacha Basin Facility (JBF) will be upgraded and modified to treat up to 1.3 MGD of domestic wastewater to Title 22 level for irrigation of parks, playgrounds, schoolyards, and other areas where the public has similar access or exposure. The report of waste discharge also requests authorization to use all nine ponds to store treated wastewater. The storage ponds are located in the La Nacion Hydrologic Subarea (9.12) of the Lower Sweetwater Hydrologic Area of the Sweetwater Hydrologic Unit and the Otay Valley Hydrologic Area of the Otay Hydrologic Unit. Use of reclaimed water will occur within the Telegraph Hydrologic Subarea (HSA 9.11), the La Nacion HSA (9.12) and the Salt Creek portion of the Otay Valley Hydrologic Area (HA 10.20). The location of the storage ponds and reclamation use area are shown on Attachment No. 1 to this Order.
13. On January 28, 1991, this Regional Board adopted Order No. 91-09, **Waste Discharge Requirements for Otay Water District, Jamacha Basin Facility, San Diego County**. Order No. 91-09 established requirements for the discharge of up to 1.3 MGD of treated wastewater for irrigation of parks, playground, schoolyards, and other areas where the public has similar access or exposure. Order No. 91-09 also authorized the use of all nine storage ponds at the District's reclamation use area.
14. By letter dated March 23, 1992, Otay Water District (OWD) requested that Order No. 91-09 be amended to add reclaimed water use provisions in order to streamline the process of increasing the number of reclaimed water users within their approved discharge limits.
15. All sewage collected by OWD can presently be pumped via the Rancho San Diego Outfall Facility (RSDOF) to the San Diego Metropolitan Sewerage System (SDMSS), and up to 0.4 MGD of sewage can be pumped to the Spring Valley Sanitation District Casa de Oro Trunk Sewer for conveyance to the

SDMSS.

16. OWD has the ability to pump up to 1.3 MGD of raw sewage to JBF via the Rancho San Diego Pump Station (RSDPS) and/or the existing Steele Canyon Pump Station. JBF uses the following treatment processes: rotary screening, comminution, grit removal, fine bubble aeration activated sludge, secondary sedimentation, chemical addition and rapid mixing, flocculation, filtration, and chlorine disinfection. If it is necessary to meet the effluent limits, demineralization of a portion of the filtered effluent can be provided by the existing reverse osmosis unit. Residual solids will be routinely discharged to SDMSS via a new solids pumping station or discharged to existing onsite sludge drying beds. Since emergency power and pumping system redundancy are provided by RSDOF, the existing emergency storage pond in JBF will be eliminated. The report of waste discharge indicates that the discharger is interested in the beneficial reuse/disposal of sludge at the District's reclamation use area. The discharger may submit a report of waste discharge regarding sludge reuse/disposal at a later date.
17. This Order prescribes waste discharge requirements and reclamation requirements governing the production and use of reclaimed water, which the Regional Board has determined are necessary to protect the public health, safety and welfare pursuant to California Water Code, Division 7, Chapter 7, Sections 13500-13550 ("Water Reclamation Law"). This Order, which applies to the producer of reclaimed water, requires that the producer of the reclaimed water establish and enforce rules and regulations which apply to users, including purveyors, of the reclaimed water.
18. The **Comprehensive Water Quality Control Plan Report, San Diego Basin (9)** (Basin Plan), was adopted by this Regional Board on March 17, 1975 and subsequently approved by the State Water Resources Control Board (State Board). Subsequent revisions to the Basin Plan have also been adopted by the Regional Board and approved by the State Board.
19. The Basin Plan established the following beneficial uses of the surface waters in the Telegraph HSA (9.11), La Nacion HSA (9.12) and the Otay Valley HA (10.20):

<u>Beneficial Use</u>	<u>9.11</u>	<u>9.12</u>	<u>10.20</u>
Agricultural Supply			x
Industrial service supply	x	x	x
Non-contact water recreation	x	x	x
Warm fresh-water habitat	x	x	
Wildlife habitat	x	x	x
Preservation of rare and endangered species	x	x	x

Note: x = Existing beneficial use.

20. The Basin Plan established the following beneficial uses of the ground waters in the Telegraph HSA (9.11), La Nacion HSA (9.12) and the Salt Creek portion of the Otay Valley HA (10.20):

<u>Beneficial Use</u>	<u>9.11</u>	<u>9.12</u>	<u>10.20</u>
Municipal and Domestic Supply	o	x	
Agricultural Supply	x	x	
<u>Industrial Service Supply</u>	<u>x</u>	<u>x</u>	<u>x</u>

Note: o = Potential beneficial use.

21. The Basin Plan established the following objectives for surface waters in the Telegraph HSA (9.11), La Nacion HSA (9.12) and the Otay Valley HA (10.20):

Constituent	Units	Concentration not to be exceeded more than 10 percent of the time	
		9.11, 9.12	10.20
Total dissolved solids	mg/L	1500	1000
Chloride	mg/L	500	400
Percent sodium	%	60	60
Sulfate	mg/L	500	500
Nitrogen and phosphorus	mg/L	*	*
Iron	mg/L	0.3	0.3
Manganese	mg/L	0.05	0.05
Methylene blue active substances	mg/L	0.5	0.5
Boron	mg/L	0.5	0.5
Odor		None	None
Turbidity	NTU	20	5
Color	Units	20	20
Fluoride	mg/L	---	1.0

- * Concentrations of nitrogen and phosphorus, by themselves or in combination with other nutrients, shall be maintained at levels below those which stimulate algae and emergent plant growth. Threshold total phosphorus (P) concentrations shall not exceed 0.05 mg/L in any stream at the point where it enters any standing body of water. A desired goal in order to prevent plant nuisances in streams and other flowing waters appears to be 0.1 mg/L total P. These values are not to be exceeded more than 10 percent of the time unless studies of the specific water body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds; however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1 shall be used.

Note: mg/L = milligrams per liter
NTU = Nephelometric Turbidity Units

22. The Basin Plan established the following objectives for ground waters in the Telegraph HSA (9.11), La Nacion HSA (9.12) and the Salt Creek portion of the Otay Valley HA (10.20):

Constituent	Units	Concentration not to be exceeded <u>more than 10 percent of the time</u>		
		9.11	9.12	10.20
Total dissolved solids	mg/L	3000	1500	---
Chloride	mg/L	750	500	---
Percent sodium	%	60	60	---
Sulfate	mg/L	500	500	---
Nitrate	mg/L	45	45	---
Iron	mg/L	0.3	0.3	---
Manganese	mg/L	0.05	0.05	---
Methylene blue active substances	mg/L	0.5	0.5	---
Boron	mg/L	0.5	0.5	---
Odor		None	None	None
Turbidity	NTU	5	5	---
Color	Units	15	15	---
Fluoride	mg/L	1.0	1.0	---

23. OWD reports that potable water supplied to OWD from January 1989 through January 1990 contained an average total dissolved solids (TDS) concentration of 560 mg/l with peak concentrations of 640 mg/l.

24. OWD reports that the existing raw wastewater from January 1989 through January 1990 contained an average TDS of 864 mg/l with peak concentrations of 960 mg/l.

25. The Basin Plan also contains the following prohibitions applicable to the proposed discharge:

"Discharge of treated or untreated sewage or industrial wastes to a natural watercourse upstream of surface storage or diversion facilities used for municipal supply is prohibited."

"Discharge of treated or untreated sewage or industrial wastewater, exclusive of cooling water or other waters which are chemically unchanged, to a watercourse, is prohibited except in cases where the quality of said discharge complies with the receiving body's water quality objectives."

"Discharge of treated or untreated sewage or industrial wastes in such manner or volume as to cause sustained surface flow or ponding on lands not owned or under the

control of the discharger is prohibited except in cases defined in the previous paragraph and in cases in which the responsibility for all downstream adverse effects is accepted by the discharger."

26. In April 1983, OWD adopted and placed into effect 'Rules and Regulations for Reclaimed Water Facilities'. OWD 'Rules and Regulations for Reclaimed Water Facilities' will be enforced by the discharger for reclaimed water use within the Salt Creek portion of the Otay Valley Hydrologic Area (10.20), and the Telegraph Hydrologic Subarea (9.11).
27. On June 12, 1990, OWD approved a Negative Declaration for the Upgrade and Modification Project at JBF. The project as approved by OWD will not have a significant effect on water quality.
28. On September 20, 1989 OWD adopted Resolution No. 2808, which certified that the City of Chula Vista EIR 86-4 "Final Supplemental EIR - East Lake Greens and East Lake Trails (June 1989) (Case No. EIR-86-04 SCH 86052803) was prepared and completed in accordance with the California Environmental Quality Act (Public Resources Code Section 21000 et seq.).

The project as approved by the City of Chula Vista will not have a significant effect on water quality.

29. On March 23, 1981, the Regional Board adopted Resolution No. 81-16, **A Resolution Adopting Amendments to the Comprehensive Water Quality Control Plan for the San Diego Region**. The findings of Resolution 81-16 state that the proposed amendments for Telegraph Subarea would be consistent with State Board Resolution No. 68-16, **Statement of Policy with Respect to Maintaining High Quality of Waters in California**, also known as Nondegradation Policy, as long as current uses of ground waters are protected and wastewater reclamation/reuse occurs that will displace the need for imported potable water supplies. Since the effluent limits for JBF prescribed in this Order will protect the ground water beneficial uses, and since, in the absence of reclaimed wastewater, imported potable water would be used for irrigation of the reclaimed water use areas described in this Order, this Order is consistent with Regional Board Resolution No. 81-16, and with State Board Resolution No. 68-16.
30. Any uses of reclaimed wastewater in the Salt Creek portion of the Otay Valley Hydrologic Area:
 - a. Will have maximum benefit to the people of the State, because in the absence of reclaimed wastewater,

imported potable water would be used for irrigation of the reclaimed water use areas described in this Order;

- b. Will not unreasonably effect the beneficial uses of ground water in the Salt Creek portion of the Otay Valley Hydrologic Area; and
- c. Will not cause the ground water objectives of the Salt Creek portion of the Otay Valley Hydrologic Area to be exceeded.

Therefore this Order is consistent with State Board Resolution No. 68-16.

- 31. The Regional Board, in establishing the requirements contained herein, considered factors including, but not limited to the following:
 - (a) Beneficial uses to be protected and the water quality objectives reasonably required for that purpose;
 - (b) Other waste discharges;
 - (c) The need to prevent nuisance;
 - (d) Past, present, and probable future beneficial uses of the hydrologic unit under consideration;
 - (e) Environmental characteristics of the hydrologic unit under consideration;
 - (f) Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area;
 - (g) Economic considerations;
 - (h) The need for developing housing within the region; and
 - (i) The need to develop and use recycled water.
- 32. The Regional Board considered all environmental factors associated with the discharge of waste.
- 33. The Regional Board has notified the discharger and all known interested parties of its intent to adopt waste discharge requirements for use of reclaimed water by OWD.
- 34. The Regional Board in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, That Otay Water District (hereinafter discharger), in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. PROHIBITIONS

1. Discharges of wastes, including windblown spray and runoff of effluent applied for irrigation, to lands which have not been specifically described in the report of waste discharge and the findings of this Order and for which valid waste discharge requirements are not in force are prohibited.
2. The discharge of any radiological, chemical or biological warfare agent, or high-level radiological waste is prohibited.
3. Storage, use and/or disposal of wastes in a manner that would result in ponding or surfacing of wastes on lands beyond the District's reclamation use area, as described in the findings of this Order, is prohibited.
4. The discharge of wastewater shall not:
 - (a) Cause the occurrence of coliform or pathogenic organisms in waters pumped from the basin;
 - (b) Cause the occurrence of objectionable tastes and odors in water pumped from the basin;
 - (c) Cause waters pumped from the basin to foam;
 - (d) Cause the presence of toxic materials in waters pumped from the basin;
 - (e) Cause the pH of waters pumped from the basin to fall below 6.0 or rise above 9.0;
 - (f) Cause this Regional Board's objectives for the ground or surface waters of the Sweetwater Hydrologic Unit or the Otay Hydrologic Unit as established in the Basin Plan, to be exceeded;
 - (g) Cause odors, septicity, mosquitos or other vectors, weed growth or other nuisance conditions in the Sweetwater River or the Otay River or their tributaries;
 - (h) Cause a surface flow recognizable as sewage in the Sweetwater River or the Otay River or their tributaries; or

- (i) Cause a pollution, contamination or nuisance or adversely affect beneficial uses of the ground or surface waters of the Sweetwater Hydrologic Unit or the Otay Hydrologic Unit as established in the Basin Plan.
- 5. The discharge of a waste flow volume in excess of 1.3 MGD is prohibited unless the discharger obtains revised waste discharge requirements for the proposed increased flow.
- 6. Odors, vectors, and other nuisances of sewage or sewage sludge origin beyond the limits of the treatment plant site or disposal area are prohibited.
- 7. The discharge of waste in a manner other than as described in the findings of this Order is prohibited unless the discharger obtains revised waste discharge requirements that provide for the proposed change.
- 8. The discharge of treated or untreated wastewater to the Sweetwater River or the Otay River or their tributaries is prohibited.

B. DISCHARGE SPECIFICATIONS

- 1. The discharge of an effluent containing pollutants in excess of the following effluent limitations is prohibited:

Constituent	30-day ¹ Average		Daily ² Maximum	
Biochemical Oxygen Demand (BOD ₅ @ 20° C)	30	mg/l	45	mg/l
Total Suspended Solids	30	mg/l	45	mg/l
pH	Within the limits of 6.0 to 9.0 at all times			
Total dissolved solids	400 ³	mg/l	450 ³	mg/l
Chloride	200 ⁴	mg/l	250 ⁴	mg/l
Percent sodium	60	%	60	%
Sulfate	60 ⁵	mg/l	100 ⁵	mg/l
Iron	0.3	mg/l	0.4	mg/l
Manganese	0.05	mg/l	0.06	mg/l
Methylene blue active Substances	0.5	mg/l	0.6	mg/l
Boron	2.0	mg/l	2.5	mg/l
Odor	None		None	
Turbidity	*		*	
Color	15	Units	15	Units
Fluoride	1.0	mg/l	1.2	mg/l
Coliform	**		**	

- ¹ The 30-day average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during any 30 consecutive calendar day period.
- ² The daily maximum effluent limitation shall apply to the results of a single composite or grab sample
- ³ These are the increments of TDS in effluent over supply water. However, the daily maximum concentration of TDS in effluent shall not exceed 1500 mg/l under any circumstances.
- ⁴ These are the increments of chloride in effluent over supply water. However, the daily maximum concentration of chloride in effluent shall not exceed 500 mg/l under any circumstances.
- ⁵ These are the increments of sulfate in effluent over supply water. However, the daily maximum concentration of sulfate in effluent shall not exceed 500 mg/l under any circumstances.
- *
- Not to exceed an average operating turbidity of 2 turbidity units. Not to exceed 5 turbidity units more than 5 percent of the time during any 24-hour period.
- ** The median number of coliform organisms shall not exceed 2.2 per 100 milliliters as determined from the bacteriological results of the last 7 days for which analysis have been completed, and the number of coliform organisms shall not exceed 23 per 100 milliliters in any sample.

2. All waste treatment, containment and disposal facilities shall be protected against 100-year peak stream flows as defined by the San Diego County flood control agency.
3. All waste treatment, containment and disposal facilities shall be protected against erosion, overland runoff, and other impacts resulting from a 100-year frequency 24-hour storm.
4. Collected screenings, sludges, other solids removed from liquid wastes, and filter backwash shall be discharged to SDMSS or disposed of by other means approved by the Executive Officer. Before sludge is disposed of by means other than discharge to SDMSS, used or supplied for use of others, the discharger shall submit written notification to the Executive Officer of the proposed disposal or use. Such disposal, use, or supply for use of others shall not be initiated until approved by the Executive Officer.
5. Effluent used for irrigation shall conform with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**) for irrigation of parks, playgrounds, schoolyards, and other areas where the public has similar access or exposure (currently Sections 60313(b)).
6. Effluent storage ponds and sludge drying beds shall be designed, constructed, operated, and maintained so as to prevent surfacing of wastes on property not owned or controlled by the discharger. Surface runoff of any wastes which surface on property owned or controlled by the discharger onto property not owned or controlled by the discharger shall be prevented.
7. Reverse osmosis brines shall be hauled to a Class I disposal site, discharged to SDMSS, or disposed of by other means approved by the Executive Officer.

C. PROVISIONS

1. These WDRs hereby supersede Order No. 91-09, **Waste Discharge Requirements for Otay Water District, Jamacha Basin Facility, San Diego County**, adopted by the Regional Board on January 28, 1991.
2. Neither the treatment nor the discharge of waste shall create a pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code.

3. The discharger must comply with all conditions of this Order. Any noncompliance with this Order constitutes a violation of the California Water Code and is grounds for (a) enforcement action; (b) termination, revocation and reissuance, or modification of this Order; or (c) denial of a report of waste discharge in application for new or revised waste discharge requirements.
4. In an enforcement action, it shall not be a defense for the discharger that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with this Order. Upon reduction, loss, or failure of the treatment facility, the discharger shall, to the extent necessary to maintain compliance with this Order, control production or all discharges, or both, until the facility is restored or an alternative method of treatment is provided. This provision applies for example, when the primary source of power of the treatment facility fails, is reduced, or is lost.
5. The discharger shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Order, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the noncompliance.
6. The discharger shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Order.
7. This Order may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:
 - (a) Violation of any terms or conditions of this Order;
 - (b) Obtaining this Order by misrepresentation or failure to disclose fully all relevant facts; or

- (c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

The filing of a request by the discharger for the modification, revocation and reissuance, or termination of this Order, or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

8. This Order is not transferrable to any person except after notice to the Executive Officer. The Regional Board may require modification or revocation and reissuance of this Order to change the name of the discharger and incorporate such other requirements as may be necessary under the California Water Code. The discharger shall submit notice of any proposed transfer of this Order's responsibility and coverage to a new discharger as described under Reporting Requirement E.3.
9. This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from liability under federal, state or local laws, nor create a vested right for the discharger to continue the waste discharge.
10. The discharger shall allow the Regional Board, or an authorized representative upon the presentation of credentials and other documents as may be required by law, to:
 - (a) Enter upon the discharger's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Order;
 - (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order;
 - (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
 - (d) Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order or as otherwise authorized by the California Water Code, any substances or parameters at any

location.

11. The discharger's wastewater treatment facilities shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23 of the California Code of Regulations.
12. A copy of this Order shall be maintained at JBF and shall be available to operating personnel at all times.
13. The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.
14. The potable water supply shall not be used to supplement the reclaimed water supply except through an approved air gap. In other areas where the potable water supply is piped to premises where sewage is pumped, treated or reclaimed (i.e., sewage treatment plants or pumping stations, golf course, etc.) the potable water supply shall be protected at the property line in accordance with the State Department of Health Services' **Regulations Relating to Cross-Connections**.

D. RECLAIMED WATER USE PROVISIONS

1. If Otay WD (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall update their **Rules and Regulations for Reclaimed Water Users** governing the design and construction of reclaimed water use facilities and the use of reclaimed water. The revised rules and regulations shall, at a minimum, contain the following provisions:
 - a. Provisions implementing Title 22, Division 4, Chapter 3, **Reclamation Criteria**, of the California Code of Regulations;
 - b. Provisions implementing the State Department of Health Services (DOHS) **Guidelines For Use of Reclaimed Water and Guidelines for Use of Reclaimed Water for Construction Purposes** or measures, acceptable to DOHS, providing equivalent protection of public health;
 - c. Provisions authorizing the Regional Board, the discharger/producer, or an authorized

representative of these parties, upon presentation of proper credentials, to inspect the facilities of any reclaimed water user to ascertain whether the user is complying with the discharger/producer's rules and regulations;

- d. Provision for written notification, in a timely manner, to the discharger/producer by the reclaimed water user of any material change or proposed change in the character of the use of reclaimed water;
- e. Provision for submission of a preconstruction report to the discharger/producer by the reclaimed water user in order to enable the discharger/producer to determine whether the user will be in compliance with the discharger/producer's rules and regulations;
- f. Provision requiring reclaimed water users to designate a reclaimed water supervisor responsible for the reclaimed water system at each use area under the user's control. Reclaimed water supervisors should be responsible for the installation, operation, and maintenance of the irrigation system, enforcement of the discharger/producer's reclaimed water user rules and regulations, prevention of potential hazards, and maintenance of the reclaimed water distribution system plans in "as built" form;
- g. Provision authorizing the discharger/producer to cease supplying reclaimed water to any person who uses, transports, or stores such water in violation of the discharger/producer's rules and regulations;
- h. Provision requiring notification and concurrence of the State Department of Health Services and the County of San Diego Department of Health Services, Environmental Health Services for new reclaimed water users;
- i. Provision requiring all reclaimed water storage facilities owned and/or operated by reclaimed water users to be protected against erosion, overland runoff, and other impacts resulting from a 100-year frequency storm, 24 hour storm;
- j. Provision requiring all reclaimed water storage facilities owned and /or operated by reclaimed water users to be protected against 100 - year

frequency peak stream flows as defined by the San Diego County flood control agency;

- k. Provision for notification to reclaimed water users that the Regional Board may initiate enforcement action against any reclaimed water user who discharges reclaimed water in violation of any applicable discharge prohibitions prescribed by the Regional Board or in a manner which creates, or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code Section 13050; and
- 1. Provision for notification to reclaimed water users that the Regional Board may initiate enforcement action against the discharger/producer, which may result in the termination of the reclaimed water supply, if any person uses, transports, or stores such water in violation of the discharger/producer's rules and regulations or in a manner which creates, or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code Section 13050.

The revised rules and regulations shall be subject to the approval of the Regional Board Executive Officer; the State Department of Health Services; and the County of San Diego Department of Health Services, Environmental Health Services. The revised rules and regulations shall be submitted to the Regional Board within 90 days of adoption of this Order by the Regional Board.

- 2. If Otay WD (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall implement and enforce the revised rules and regulations for reclaimed water users. Use of reclaimed water by the discharger/producer shall be consistent with provisions a. through 1. in item D.1 above.
- 3. If Otay WD (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall, within 90 days of the adoption of this Order, develop and submit to the Regional Board a program to conduct compliance inspections of reclaimed water reuse sites to determine the status of compliance with the approved rules and regulations for reclaimed water users. The discharger/producer shall implement the inspection program upon its approval by the Regional Board Executive Officer.

4. Reclaimed water shall not be supplied to parties who use, transport, or store such water in a manner which causes a pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code.

E. REPORTING REQUIREMENTS

1. The discharger shall file a new Report of Waste Discharge at least 120 days prior to the following:
 - (a) Addition of a major industrial waste discharge to a discharge of essentially domestic sewage, or the addition of a new process or product by an industrial facility resulting in a change in the character of the wastes.
 - (b) Significant change in the treatment or disposal method (e.g., change in the method of treatment which would significantly alter the nature of the waste.)
 - (c) Change in the disposal area from that described in the findings of this Order.
 - (d) Increase in flow beyond that specified in this Order.
 - (e) Other circumstances which result in a material change in character, amount, or location of the waste discharge.
 - (f) Any planned change in the regulated facility or activity which may result in noncompliance with this Order.
2. The discharger shall furnish to the Executive Officer of this Regional Board, within a reasonable time, any information which the Executive Officer may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The discharger shall also furnish to the Executive Officer, upon request, copies of records required to be kept by this Order.
3. The discharger must notify the Executive Officer, in writing at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage to a new discharger. The notice must include a written agreement between the existing and new discharger containing a specific date for the transfer of this Order's responsibility and coverage between the current

discharger and the new discharger. This agreement shall include an acknowledgement that the existing discharger is liable for violations up to the transfer date and that the new discharger is liable from the transfer date on.

4. The discharger shall comply with the attached Monitoring and Reporting Program No. 92-25, and future revisions thereto as specified by the Executive Officer. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. 92-25.
5. If a need for a discharge bypass is known in advance, the discharger shall submit prior notice and, if at all possible, such notice shall be submitted at least 10 days prior to the date of the bypass.
6. Where the discharger becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, it shall promptly submit such facts or information.
7. The discharger shall report any noncompliance which may endanger health or the environment. Any such information shall be provided orally to the Executive Officer within 24 hours from the time the discharger becomes aware of the circumstances. A written submission shall also be provided within five days of the time the discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. The following occurrence(s) must be reported to the Executive Officer within 24 hours:
 - (a) Any bypass from any portion of the treatment facility.
 - (b) Any discharge of treated or untreated wastewater resulting from sewer line breaks, obstruction, surcharge or any other circumstances.

- (c) Any treatment plant upset which causes the effluent limitations of this Order to be exceeded.
8. All applications, reports, or information submitted to the Executive Officer shall be signed and certified as follows:
- (a) The Report of Waste Discharge shall be signed as follows:
 - (1) For a corporation - by a principal executive officer of at least the level of vice-president.
 - (2) For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
 - (3) For a municipality, state, federal or other public agency - by either a principal executive officer or ranking elected official.
 - (b) All other reports required by this Order and other information required by the Executive officer shall be signed by a person designated in paragraph (a) of this provision, or by a duly authorized representative of that person. An individual is a duly authorized representative only if:
 - (1) The authorization is made in writing by a person described in paragraph (a) of this provision;
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity; and
 - (3) The written authorization is submitted to the Executive Officer.
 - (c) Any person signing a document under this Section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is

true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

9. The discharger shall submit reports required under this Order, or other information required by the Executive Officer, to:

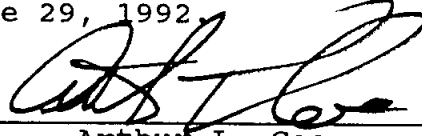
Executive Officer
California Regional Water Quality Control Board
San Diego Region
9771 Clairemont Mesa Blvd, Suite B
San Diego, California 92124- 1331

F. NOTIFICATIONS

1. California Water Code Section 13263(g) states:

"No discharge of waste into waters of the state, whether or not such discharge is made pursuant to waste discharge requirements, shall create a vested right to continue such discharge. All discharges of waste into waters of the state are privileges, not rights"
2. These requirements have not been officially reviewed by the United States Environmental Protection Agency and are not issued pursuant to Section 402 of the Clean Water Act.
3. The California Water Code provides that any person who intentionally or negligently violates any waste discharge requirements issued, reissued, or amended by this Regional Board is subject to a civil monetary remedy of up to 20 dollars per gallon of waste discharged or, if a cleanup and abatement order is issued, up to 15,000 dollars per day of violation or some combination thereof.
4. The California Water Code provides that any person failing or refusing to furnish technical or monitoring program reports, as required under this Order, or falsifying any information provided in the monitoring reports is guilty of a misdemeanor.
5. This Order becomes effective on the date of adoption by the Regional Board.

I, Arthur L. Coe, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Diego Region, on June 29, 1992.

A handwritten signature in dark ink, appearing to read 'Arthur L. Coe', is written over a horizontal line.

Arthur L. Coe
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

MONITORING AND REPORTING PROGRAM NO. 92-25
FOR
OTAY WATER DISTRICT
JAMACHA BASIN FACILITY
SAN DIEGO COUNTY

A. MONITORING PROVISIONS

1. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this Order and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water, or substance. Monitoring points shall not be changed without notification to and the approval of the Executive Officer.
2. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than ± 5 percent from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:
 - (a) "A Guide to Methods and Standards for the Measurement of Water Flow," U. S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 97 pp. (Available from the U. S. Government Printing Office, Washington, D. C. 20402. Order by SD Catalog No. C13.10:421.)
 - (b) "Water Measurement Manual," U. S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U. S. Government Printing Office, Washington D. C. 20402. Order by Catalog No. 127,19/2:W29/2, Stock No. S/N 24003-0027.)

- (c) "Flow Measurement in Open Channels and Closed Conduits," U. S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Service (NTIS) Springfield, VA 22151. Order by NTIS No. PB-273-535/5ST.)
 - (d) "NPDES Compliance Sampling Manual," U. S. Environmental Protection Agency, Office of Water Enforcement. Publication MCD-51, 1977, 140 pp. (Available from the General Services Administration (8FFS), Centralized Mailing Lists Services, Building 41, Denver Federal Center, Denver, CO 80225.)
3. Monitoring must be conducted according to United States Environmental Protection Agency test procedures approved under Title 40, Code of Federal Regulations (CFR), Part 136, "Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act" as amended, unless other test procedures have been specified in this Order.
 4. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services or a laboratory approved by the Executive Officer.
 5. Monitoring results must be reported on discharge monitoring report forms approved by the Executive Officer.
 6. If the discharger monitors any pollutants more frequently than required by this Order, using test procedures approved under 40 CFR, Part 136, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharger's monitoring report. The increased frequency of monitoring shall also be reported.
 7. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report or application. This period may be extended during the

course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.

8. Records of monitoring information shall include:
 - (a) The date, exact place, and time of sampling or measurements;
 - (b) The individual(s) who performed the sampling or measurements;
 - (c) The date(s) analyses were performed;
 - (d) The individual(s) who performed the analyses;
 - (e) The analytical techniques or method used; and
 - (f) The results of such analyses.
9. All monitoring instruments and devices which are used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
10. The discharger shall report all instances of noncompliance not reported under Reporting Requirement E.7 of this Order at the time monitoring reports are submitted. The reports shall contain the information listed in Reporting Requirement E.7.
11. The monitoring reports shall be signed by an authorized person as required by Reporting Requirement E.8.
12. A composite sample is defined as a combination of at least eight sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.
13. A grab sample is an individual sample of at least 100 milliliters collected at a randomly selected time over a period not exceeding 15 minutes.
14. Sampling and analysis shall, as a minimum, be conducted in accordance with Article 6 of California Code of Regulations, Title 22, Division 4, Chapter 3 (Reclamation Criteria).

B. EFFLUENT MONITORING

The following shall constitute the effluent monitoring program for the JBF:

Determination	Unit	Sample Type	Sampling Frequency	Reporting Frequency
Flowrate	MGD	Continuous	Continuous	Monthly
Biochemical Oxygen Demand (5-Day @ 20°C)	mg/L	Composite	3/Week	Monthly
Total Suspended Solids	mg/L	Composite	3/Week	Monthly
Volatile Suspended Solids	mg/L	Composite	3/Week	Monthly
pH	Unit	Composite	3/Week	Monthly
Total Dissolved Solids	mg/l	Composite	Monthly	Monthly
Chloride	mg/L	Composite	Monthly	Monthly
Percent Sodium	%	Composite	Monthly	Monthly
Sulfate	mg/L	Composite	Monthly	Monthly
Iron	mg/l	Composite	Monthly	Monthly
Manganese	mg/l	Composite	Monthly	Monthly
Methylene Blue Active Substances	mg/L	Composite	Monthly	Monthly
Boron	mg/L	Composite	Monthly	Monthly
Fluoride	mg/L	Composite	Monthly	Monthly
Aluminum	mg/L	Composite	Annually	Annually
Arsenic	mg/l	Composite	Annually	Annually
Barium	mg/l	Composite	Annually	Annually
Cadmium	mg/l	Composite	Annually	Annually
Chromium	mg/l	Composite	Annually	Annually
Lead	mg/l	Composite	Annually	Annually
Mercury	mg/l	Composite	Annually	Annually
Selenium	mg/l	Composite	Annually	Annually
Silver	mg/l	Composite	Annually	Annually
Coliform	MPN/100 ml	Grab	*	Monthly
Turbidity	NTU	Continuous	**	Monthly

* Samples for coliform bacteria shall be collected at least daily and at a time when wastewater characteristics are most demanding on the treatment facilities and disinfection procedures.

** Turbidity analysis shall be performed by a continuous recording turbidimeter.

Note: MGD = million gallons per day
mg/l = milligrams per liter
MPN/100 ml = Most Probable Number per 100 milliliters
ml/l = milliliters per liter
NTU = Nephelometric Turbidity Units

C. POTABLE SUPPLY WATERS

Analysis of the potable waters supplied to the service area for the JBF shall be conducted for the following constituents semiannually with the results reported monthly.

=====	
Constituent	Unit

Total dissolved solids	mg/l
Chloride	mg/l
Sulfate	mg/l

The increments of TDS, sulfate, and chloride in effluent over the supply water shall be determined semiannually and reported monthly.

D. RECLAIMED WATER USERS SUMMARY REPORT

If the discharger/producer is supplying reclaimed water for use by other parties, the discharger/producer shall submit a quarterly reclaimed water users summary report containing the following information:

a) Reclaimed water use site summary information

The following information shall be submitted for each reclaimed water use site.

- 1) Name of the reclaimed water use site
- 2) Owner of the reclaimed water use facility
- 3) Address of the reclaimed water use site
- 4) Name of the reclaimed water use supervisor
- 5) Phone number of the reclaimed water use supervisor
- 6) Mailing address of the reclaimed water use supervisor, if different from site address
- 7) Basin Plan name and number of hydrologic subarea underlying the reclaimed water use site
- 8) Volume of reclaimed water delivered to the reclaimed water use site on a monthly basis.

b) Reclaimed water use summary information

- 1) Total volume of reclaimed water supplied to all reclaimed water users for each month of the reporting period.
- 2) Total number of reclaimed water use sites.

c) **Reclaimed water use site inspections**

Number of reclaimed water use site inspections conducted by discharger/producer staff and identification of sites inspected for the reporting period.

d) **Reclaimed water user violations of the discharger/producer's rules and regulations**

The discharger/producer shall identify all reclaimed water users known by the discharger/producer to be in violation of the discharger/producer's rules and regulations for reclaimed water users. The report shall include a description of the noncompliance and its cause, including the period of noncompliance, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

E. **SEWAGE SOLIDS**

A log of the type, quantity, and manner of disposal of solids removed in the course of sewage treatment shall be maintained and submitted monthly.

F. **REVERSE OSMOSIS BRINES**

A log of the quantity, and manner of disposal of reverse osmosis brines shall be maintained and submitted monthly.

G. **ANNUAL SUMMARY OF MONITORING DATA**

By January 30 of each year, the discharger shall submit an annual report to the Executive Officer. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with this Order.

H. **REPORTING**

Monitoring reports shall be submitted to the Executive Officer in accordance with the following schedule:

Monitoring and Reporting
Program No. 92-25

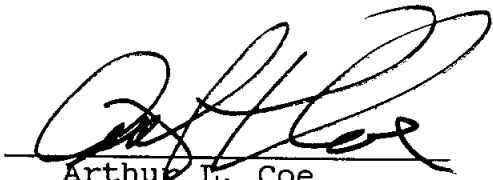
7

<u>Reporting Frequency</u>	<u>Report Period</u>	<u>Report Due</u>
Monthly	January, February, March, April, May, June, July, August, September, October, November, December	By the end of the following month
Annually	January-December	January 31

Monitoring reports shall be submitted to:

California Regional Water Quality Control Board
San Diego Region
9771 Clairemont Mesa Blvd., Suite B
San Diego, CA 92124-1331

Ordered by


Arthur L. Coe
Executive Officer
June 29, 1992

